

DOCKET No. 01-S-017 (STMI01-00017)
U.S. SERIAL No. 09/943,815
PATENT

IN THE CLAIMS

Please amend the claims as follows.

1. (Original) An apparatus for implementing special mode playback operations in a digital video recorder, the apparatus comprising:

an Intra frame indexing device capable of receiving an incoming MPEG video stream and identifying therein data packets associated with Intra frames, wherein said Intra frame indexing device modifies header information in a first data packet associated with a first Intra frame to include location information identifying a storage address of a second data packet associated with a second Intra frame.

2. (Original) The apparatus as set forth in Claim 1 wherein said second Intra frame chronologically precedes said first Intra frame.

3. (Original) The apparatus as set forth in Claim 1 wherein said second Intra frame chronologically follows said first Intra frame.

4. (Original) The apparatus as set forth in Claim 1 wherein said location information comprises sequence information identifying a location of a video frame sequence containing said second Intra frame.

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5. (Original) The apparatus as set forth in Claim 4 wherein said video frame sequence containing said second Intra frame chronologically precedes a video frame sequence containing said first Intra frame.

6. (Previously Presented) The apparatus as set forth in Claim 4 wherein said video frame sequence containing said second Intra frame chronologically follows a video frame sequence containing said first Intra frame.

7. (Original) A digital video recorder capable of playing back a recorded television program, said digital video recorder comprising:

a video processor capable of receiving an incoming television program and converting said incoming television program to a baseband video signal capable of being displayed on a television set coupled to said digital video recorder;

a storage disk capable of storing said incoming television program; and

an apparatus for implementing special mode playback operations, the apparatus comprising an Intra frame indexing device capable of receiving an incoming MPEG video stream and identifying therein data packets associated with Intra frames, wherein said Intra frame indexing device modifies header information in a first data packet associated with a first Intra frame to include location information identifying a storage address on said storage disk of a second data packet associated with a second Intra frame.

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8. (Original) The digital video recorder as set forth in Claim 7 wherein said second Intra frame chronologically precedes said first Intra frame.

9. (Original) The digital video recorder as set forth in Claim 7 wherein said second Intra frame chronologically follows said first Intra frame.

10. (Original) The digital video recorder as set forth in Claim 7 wherein said location information comprises sequence information identifying a location of a video frame sequence containing said second Intra frame.

11. (Previously Presented) The digital video recorder as set forth in Claim 10 wherein said video frame sequence containing said second Intra frame chronologically precedes a video frame sequence containing said first Intra frame.

12. (Previously Presented) The digital video recorder as set forth in Claim 10 wherein said video frame sequence containing said second Intra frame chronologically follows a video frame sequence containing said first Intra frame.

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13. (Original) A method of indexing Intra frames in an MPEG video stream to enable special mode playback operations in a digital video recorder, the method comprising the steps of:

receiving the MPEG video stream;

identifying in the received MPEG video stream data packets associated with Intra frames;

and

modifying header information in a first data packet associated with a first Intra frame to include location information identifying a storage address of a second data packet associated with a second Intra frame.

14. (Original) The method as set forth in Claim 13 wherein said second Intra frame chronologically precedes said first Intra frame.

15. (Original) The method as set forth in Claim 13 wherein said second Intra frame chronologically follows said first Intra frame.

16. (Original) The method as set forth in Claim 13 wherein said location information comprises sequence information identifying a location of a video frame sequence containing said second Intra frame.

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17. (Original) The method as set forth in Claim 16 wherein said video frame sequence containing said second Intra frame chronologically precedes a video frame sequence containing said first Intra frame.

18. (Previously Presented) The method as set forth in Claim 16 wherein said video frame sequence containing said second Intra frame chronologically follows a video frame sequence containing said first Intra frame.

19. (Currently Amended) ~~An MPEG format signal~~ A recorded video product embodied in a computer readable storage medium, said recorded video product comprising:

a plurality of data packets stored on ~~[[a]]~~ said computer readable storage medium, said plurality of data packets comprising a first data packet associated with a first Intra frame, wherein said first data packet comprises a packet header comprising location information identifying a location in the plurality of data packets of a second data packet associated with a second Intra frame.

20. (Currently Amended) ~~The MPEG format signal~~ The recorded video product as set forth in Claim 19 wherein said second Intra frame chronologically precedes said first Intra frame.

21. (Currently Amended) ~~The MPEG format signal~~ The recorded video product as set forth in Claim 19 wherein said second Intra frame chronologically follows said first Intra frame.

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22. (Currently Amended) ~~The MPEG format signal~~ The recorded video product as set forth in Claim 19 wherein said location information comprises sequence information identifying a location of a video frame sequence containing said second Intra frame.

23. (Currently Amended) ~~The MPEG format signal~~ The recorded video product as set forth in Claim 22 wherein said video frame sequence containing said second Intra frame chronologically precedes a video frame sequence containing said first Intra frame.

24. (Currently Amended) ~~The MPEG format signal~~ The recorded video product as set forth in Claim 22 wherein said video frame sequence containing said second Intra frame chronologically follows a video frame sequence containing said first Intra frame.